

**CLAIMS:**

1. A method for transforming a gypsophila plant with a nucleic acid of interest comprising:
  - (i) pre-treating said gypsophila plant with a gibberellin;
  - 5 (ii) obtaining a plant segment from said treated plant;
  - (iii) co-cultivating said plant segment with an *Agrobacterium* vector comprising said nucleic acid of interest; and
  - (iv) selecting and regenerating a transformed gypsophila plant from a transformed plant segment.
- 10 2. The method of claim 1 further comprising:
  - (v) reselecting a plant segment from said transformed gypsophila plant and regenerating a second transformed gypsophila plant.
3. A method according to Claim 1 wherein said gibberellin is selected from the group consisting of GA3, GA1, GA4, and GA7.
- 15 4. A method according to Claim 3 wherein said gibberellin is GA<sub>3</sub>.
5. A method according to Claim 1 wherein said *Agrobacterium* is *A. tumefaciens* or *A. rhizogenes*.
6. A method according to Claim 5 wherein said *Agrobacterium* strain is EHA105 or AGLO.
- 20 7. A method according to Claim 1 wherein in step (i) said plant is sprayed with said gibberellin.
8. A method according to Claim 1 wherein said plant is treated with said gibberellin at least 5 days prior to obtaining said plant segments.
9. A method according to Claim 8 wherein said plant is treated 15-30 days  
25 prior to obtaining said plant segment.
10. A method according to Claim 1 wherein said plant segment is a stem explant or a leaf.
11. A method according to Claim 10 wherein said stem explant comprises at least three primary nodes.

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12. A method according to Claim 11 wherein one or more of the three primary nodes of said explant are inoculated with said *Agrobacterium*.
13. A method according to Claim 10 wherein said plant segment is derived from a seedling.
- 5 14. A method according to Claim 1 wherein said plant segment is co-cultivated for at least 3 days.
15. A method according to Claim 14 wherein the co-cultivation during at least the first 2 of said days is in the dark, and the co-cultivation during at least the last one of said days is in the light.
- 10 16. A transgenic gypsophila plant transformed with a nucleic acid of interest by the method of Claim 1.
17. A transgenic gypsophila plant according to Claim 16 of the species *Gypsophila paniculata*, *G. peniculata* or *G. elegans*.
18. Seeds and plant parts of a gypsophila plant according to Claim 16.
- 15 19. Vegetatively-derived progeny of a gypsophila plant according to Claim 16.

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